

WHAT IS CLAIMED IS:

1. An information processing apparatus,
comprising:

5 input means for entering a data string composed
of a plurality of information, said data string being
output onto display means;

extracting means for extracting information
automatically from said data string entered by said
input means according to a predetermined condition;

10 generating means for generating print data for
printing the information extracted by said extracting
means; and

output means for outputting the print data
generated by said generating means to printing means.

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2. An apparatus according to claim 1, wherein
identification information for identifying each of
a plurality of said information is added to each of a
plurality of said information; and

20 said extracting means extracts information
according to said predetermined condition and said
identification information.

25 3. An apparatus according to claim 2, wherein
said identification information denotes an item in
accordance with a data format and the content of each
of a plurality of said information.

4. An apparatus according to claim 1, wherein said data string composed of data described with a markup language.

5 5. An apparatus according to claim 1, wherein a plurality of said information include any one of text information for denoting characters, patterns, etc., still image data, movie image data, and voice data.

10 6. An apparatus according to claim 1, wherein said data string is sent by digital data-broadcasting.

15 7. An apparatus according to claim 1, wherein said generating means generates said print data so as to make information extracted by said extracting means correspond to printing position information and/or printing size information.

20 8. An apparatus according to claim 1, further comprising:

condition setting means for setting said predetermined condition,

25 wherein said extracting means extracts said information according to said condition set by said condition setting means.

9. An apparatus according to claim 8, wherein

said condition setting means sets said condition according to the date and time of said data string entry by said input means or according to inputs by a plurality of operators.

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10. An apparatus according to claim 1, wherein said predetermined condition differs among service types for sending a plurality of information items entered by said input means.

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11. An apparatus according to claim 10, wherein said predetermined condition specifies a rate of advertisement information to the information extracted by said extracting means, differently among said service types.

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12. An apparatus according to claim 1, wherein said predetermined condition specifies the number of items of information extracted by said extracting means for each category of a plurality of said information items.

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13. An apparatus according to claim 1, further comprising:

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processing means for executing a plurality of processings for a plurality of said information held in said data string entered by said input means;

assigning means for assigning a code automatically
to a processing of information extracted by said
extracting means; and

controlling means for controlling said processing
5 means so as to process said information according to a
code assigned by said assigning means.

14. An apparatus according to claim 13, wherein
a plurality of said information include
10 information distributed by data-broadcasting; and
said assigning means assigns said code to at least
any one of a display of images including still images
and movie images, a display of text information
denoting characters, patterns, etc., a voice output,
15 and a program execution related respectively to
information extracted by said extracting means.

15. An apparatus according to claim 13, wherein
said code is output to said printing means so as to
20 correspond to information related to said assigned
processing.

16. An apparatus according to claim 15, further
comprising:
25 code input means for entering a given code
manually,
wherein said controlling means controls said

processing means according to a code entered by said code input means and said assigned code.

17. An apparatus according to claim 16, wherein
5 said code input means has a color button used to enter a code and said printing means prints out said code in the same color as that of said color button when said code is to be printed out.

10 18. An apparatus according to claim 13, further comprising:

code input means for entering a given code manually, and

wherein said controlling means controls said
15 processing means according to a code entered by said code input means and said assigned code.

19. An apparatus according to claim 18, wherein
20 a plurality of said information include second code information that makes a second code correspond to a processing executed by said processing means, and
said controlling means controls said processing means according to said second code entered by said code input means and said second code information.

25 20. An apparatus according to claim 19, wherein said code input means has a color button used to enter

a code and said second code is printed out on a publication in the same color as that of said color button and/or displayed as information via a network.

5 21. An apparatus according to claim 1, further comprising:

data sending means for sending a printing result to an external information processing apparatus when said printing result is output from said output means
10 to said printing means.

22. An information processing apparatus, comprising:

processing means for executing a plurality of
15 processings for a plurality of entered information;

information selecting means for selecting an information from among a plurality of said information according to a predetermined condition;

assigning means for assigning a code automatically
20 to a processing for said information selected by said information selecting means; and

controlling means for controlling said processing means so as to process said information according to a code assigned by said assigning means.

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23. An apparatus according to claim 22, wherein said selecting condition is set to select at least any

one of information distributed by data-broadcasting,
information denoting the state of said signal
processor, information denoting the state of a
peripheral device connected to said signal processing
5 apparatus, and TV program information.

24. An apparatus according to claim 22, wherein
said selecting condition is set to specify the number
of items of information selected by said information
10 selecting means for each category of a plurality of
said information.

25. An apparatus according to claim 22, further
comprising:

15 output means for outputting print data to a
printer, said printer data being used to print
information selected by said information selecting
means and a code assigned by said assigning means so
that they correspond to each other;

20 code input means for entering a given code
manually; and

controlling means for controlling said processing
means so as to execute a processing according to a code
assigned by said assigning means and a code entered by
25 said code input means.

26. An apparatus according to claim 25, further

comprising:

generating means for generating said print data,
and

wherein said generating means generates said print
5 data according to the type of said information, the
number of items of said information, and printing
position information of said information set
respectively according to said selected condition.

10 27. An apparatus according to claim 22, further
comprising:

output means for outputting image data or text
data related to any of a plurality of said information
to display means,

15 wherein a plurality of said information include
image data including still images and movie images or
text data denoting characters, patterns, etc.

20 28. An apparatus according to claim 22, wherein
a plurality of said information include
information distributed by data-broadcasting, and

said assigning means assigns said code to at least
any one of a still image display, a text display, a
voice output, and a program execution related
25 respectively to said selected information.

29. An apparatus according to claim 22, wherein

a plurality of said information include
information denoting the state of said signal
processor, and

5 said assigning means assigns said code to a
predetermined processing according to the state of said
processor.

10 30. An apparatus according to claim 22, wherein
a plurality of said information include
information denoting the state of a software program
installed in said signal processor, and
15 said assigning means assigns a code to a
predetermined processing according to the state of said
software program.

20 31. An apparatus according to claim 22, wherein
a plurality of said information include
information denoting the state of a peripheral device
connected to said signal processor, and
25 said assigning means assigns a code to at least
any one of a control instruction issued to said
peripheral device, a display of image information or
text information related to the state of said
peripheral device, and a voice output related to the
state of said peripheral device.

32. An apparatus according to claim 22, wherein

a plurality of said information include
information of a TV program, and

said assigning means assigns a code to a recording
reservation setting processing related to said TV
5 program.

33. An information processing method, comprising:
an input step of entering a data string composed
of a plurality of information, said data string being
10 output onto display means;

an extracting step of extracting information
automatically from said entered data string according
to a predetermined condition;

a generating step of generating print data for
15 printing said extracted information; and

an output step of outputting said generated print
data to printing means.

34. A method according to claim 33, further
20 comprising:

a condition setting step of setting said
predetermined condition, and

wherein said extracting step extracts said
information according to said condition set by said
25 condition setting step.

35. A method according to claim 34, wherein said

condition setting step sets said condition according to the date and time on which said data string is entered by said input step or according to a plurality of operators.

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36. A method according to claim 33, wherein said predetermined condition differs among service types for sending a plurality of information entered by said input step.

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37. A method according to claim 36, wherein said predetermined condition specifies a rate of advertisement information to information extracted by said extracting step, said rate being varied among said service types.

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38. A method according to claim 33, wherein said predetermined condition specifies the number of items of information extracted by said extracting step for each category of a plurality of said information.

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39. A method according to claim 33, further comprising:

a processing step of executing a plurality of processings for a plurality of said information held in a data string entered by said input step;

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an assigning step of assigning a code

automatically to a processing of said extracted information; and

5 a controlling step of controlling said processing step so as to process said information according to said assigned code.

40. A method according to claim 39, wherein a plurality of said information include information distributed by data-broadcasting, and
10 said assigning step assigns said code to at least any one of a display of images including still images and moving images, a display of text information denoting characters, patterns, etc., a voice output, and a program execution with respect to information
15 extracted by said extracting step.

41. A method according to claim 39, wherein said code is output to said printing means so as to correspond to information related to said assigned
20 processing.

42. A method according to claim 41, further comprising:
a code input step of entering a given code
25 manually,
wherein said controlling step controls said processing step according to said entered code and said

assigned code.

43. A method according to claim 42, wherein said
output step prints out said code in a color specified
5 by said code input step when said code is output.

44. A method according to claim 39, further
comprising:

10 a code input step of entering a given code
manually,
wherein said controlling step controls said
processing step according to said entered code and said
assigned code.

15 45. A method according to claim 44, wherein
a plurality of said information include
information of a second code that makes said second
code correspond to a processing executed by said
processing step, and
20 said controlling step controls said processing
step according to said second code entered by said code
input step and said second code information.

25 46. A method according to claim 45, wherein said
second code is printed out on a publication and/or
displayed as information via network.

47. A method according to claim 33, further comprising:

5 a data sending step of sending a printing result to an external information processing apparatus when said printing result is output to said printing means by said output step.

48. A printer, comprising:

10 input means for entering print data generated by an information processing apparatus that generates said print data for printing information extracted automatically from a data string composed of a plurality of information according to a predetermined condition, said data string being output onto a display device; and

15 printing means for printing out said extracted information according to print data entered by said input means.

20 49. A data-broadcasting receiving apparatus, comprising:

receiving means for receiving data-broadcasting data composed of a plurality of information, said data-broadcasting data being output onto display means;

25 extracting means for extracting information automatically from data-broadcasting data received by said receiving means according to a predetermined

condition;

generating means for generating print data for
printing out information extracted by said extracting
means; and

- 5 output means for outputting print data generated
by said generating means to printing means.

- 10 50. An apparatus according to claim 49, wherein
said predetermined condition specifies a category of
said plurality of information.

51. An apparatus according to claim 49, further
comprising:

- 15 reservation setting means for reserving an
operation of said receiving means so as to receive
data-broadcasting data related to a program installed
in said data-broadcasting data at a predetermined time.

- 20 52. An apparatus according to claim 51, wherein
said predetermined condition depends on said
predetermined time set by said reservation setting
means.

- 25 53. An apparatus according to claim 49, further
comprising:

condition setting means for setting said
predetermined condition, and

wherein said predetermined condition depends on user information set by said condition setting means.

54. An apparatus according to claim 49, further comprising:

processing means for executing a plurality of processings for a plurality of information held in the data-broadcasting data received by said receiving means;

10 assigning means for assigning a code automatically to a processing of information extracted by said extracting means; and

controlling means for controlling said processing means so as to process said information according to a
15 code assigned by said assigning means.

55. An apparatus according to claim 54, wherein said assigning means assigns said code to at least any one of a display of images including still images,
20 moving images, etc., a display of text information denoting characters, patterns, etc., a voice output, and a program execution with respect respectively to information extracted by said extracting means.

56. An apparatus according to claim 54, wherein said code is output to said printing means so as to correspond to information related to said assigned

processing.

57. An apparatus according to claim 54, further comprising:

5 code input means for entering a given code manually, and

 wherein said controlling means controls said processing means according to a code entered by said code input means and said assigned code.

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58. An apparatus according to claim 57, wherein said code input means has a color button used to enter a code, and

 said printing means prints out said code in the
15 same color as that of said color button when said code is to be printed out.